

No. 890,728.

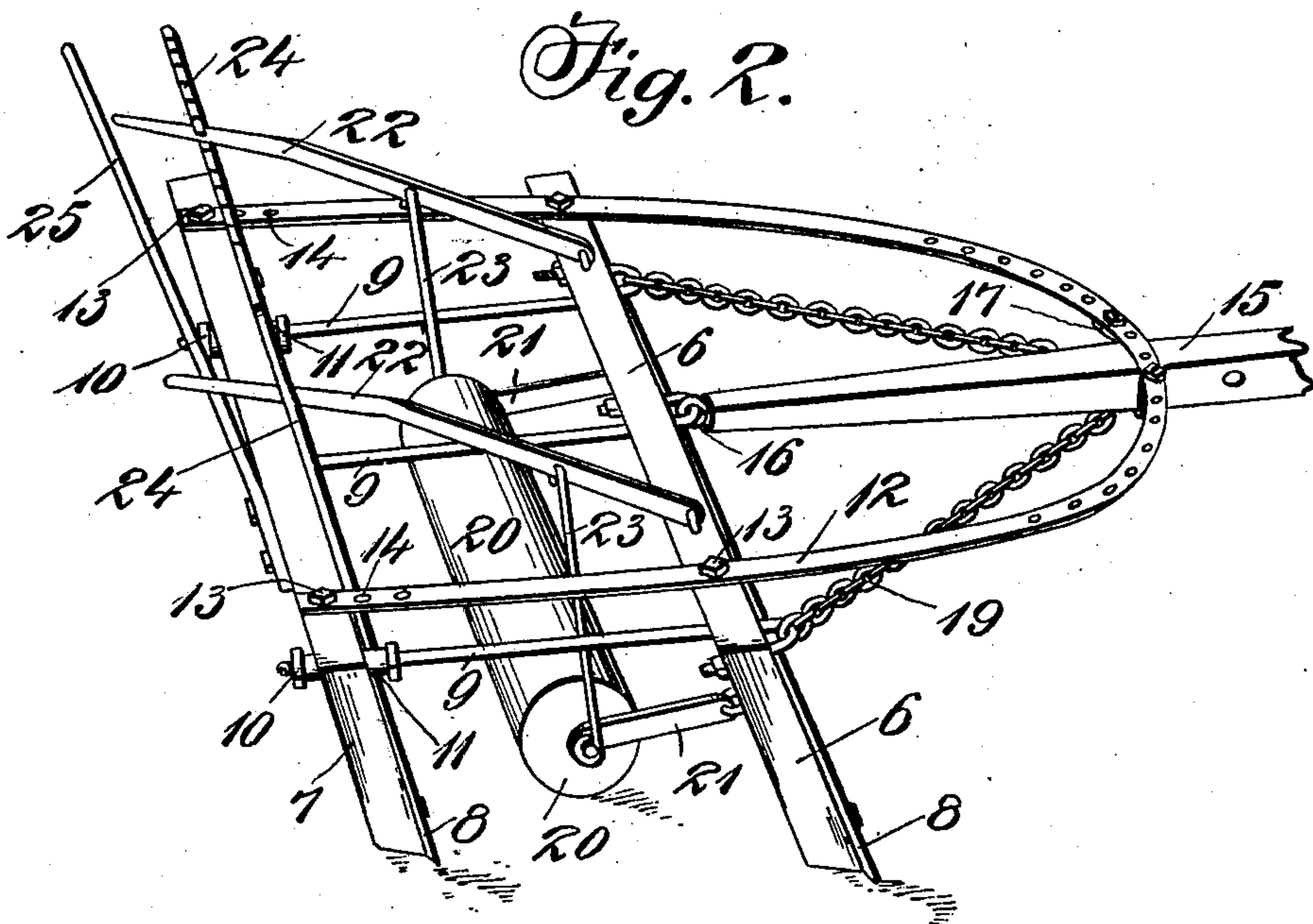
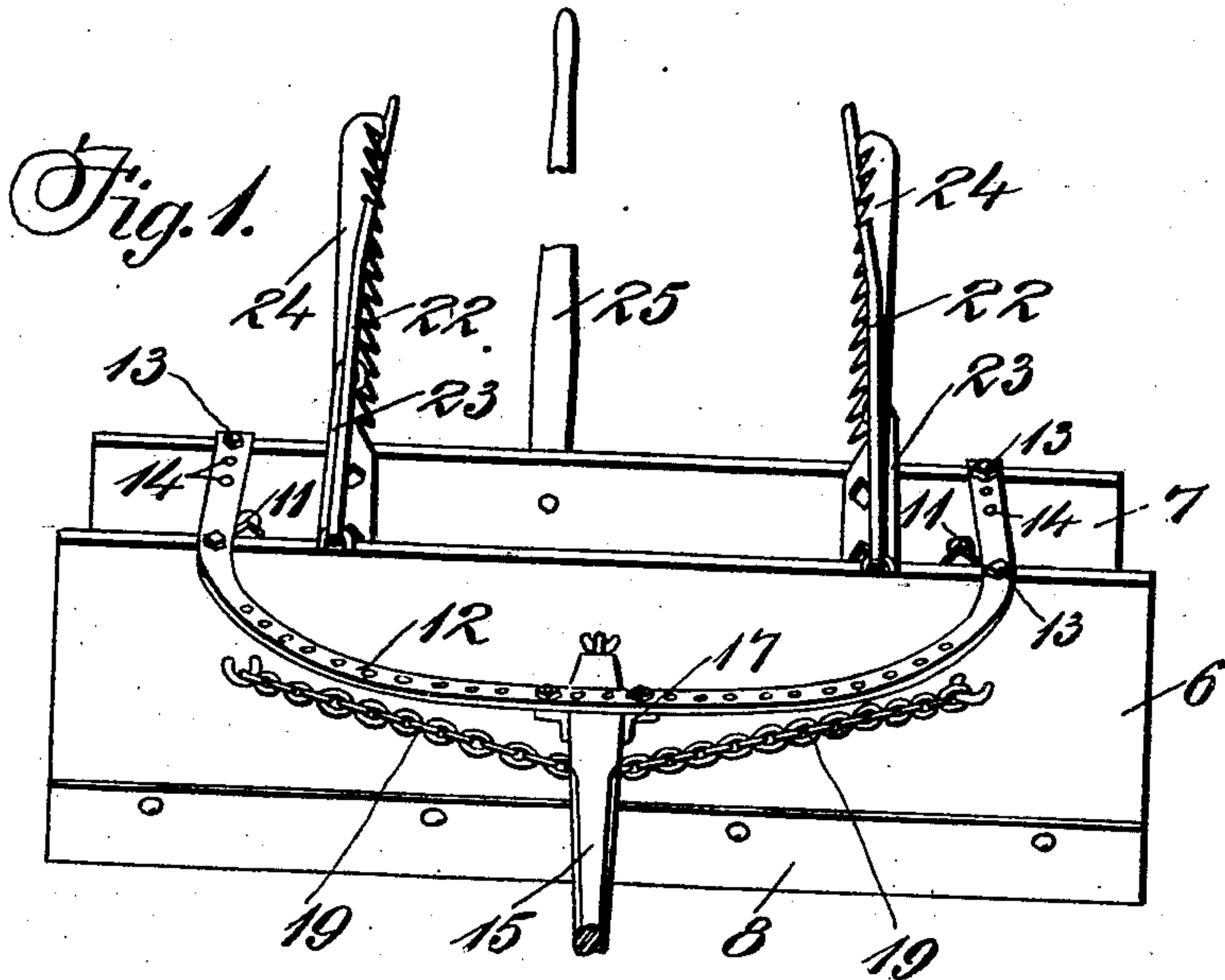
PATENTED JUNE 16, 1908.

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GRADER.

APPLICATION FILED NOV. 22, 1907.



Witnesses

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# UNITED STATES PATENT OFFICE.

HAVILAND TOMPKINS, OF FAIRFIELD, ILLINOIS; O. P. PATTERSON ADMINISTRATOR OF SAID TOMPKINS, DECEASED.

## GRADER.

No. 890,728.

Specification of Letters Patent.

Patented June 16, 1908.

Application filed November 22, 1907. Serial No. 403,359.

*To all whom it may concern:*

Be it known that I, HAVILAND TOMPKINS, a citizen of the United States, residing at Fairfield, in the county of Wayne and State of Illinois, have invented certain new and useful Improvements in Graders, of which the following is a specification.

This invention is a grader or scraper particularly useful for making, grading or repairing roads, and has for its object to provide an improved device, one feature of which is that its draft angle may be varied, and another feature is that its depth of cut may be varied, or the scraping boards can be lifted entirely above the surface of the ground. In connection with the scraping board a roller is provided, by which the depth of cut is adjusted, and on which the device may be transported when not in use.

The invention is illustrated in the accompanying drawings, in which

Figure 1 is a front perspective view of the device. Fig. 2 is a side perspective view thereof.

Referring specifically to the drawings, 6 and 7 indicate front and rear boards or drag beams which stand at an inclination edge-wise with respect to the ground, and which have cut plates or shoes 8 at their lower front edges. These boards are connected together, and spaced apart, by means of a series of bolts 9 which are provided with nuts 10, and beveled washers 11 to accommodate the angular position of the boards. These boards are arranged one in front of the other and are held in proper relation by the bolts above referred to, as well as by the ends of a semi-circular iron 12 which projects in front of the front board and is secured to the top edges of the boards by bolts 13. The distance apart of the boards may be varied by adjusting the nuts 10 and by setting the bolts 13 in different holes 14 in the semi-circular iron 12 referred to.

The tongue 15 is pivotally connected at its rear end as at 16 to a loop at the front end of the middle bolt 9, and it is supported on the iron 12 by a hanger 17 which is bolted to the said iron and which can be adjusted to different positions along the same, a series of bolt holes being provided. By this means the relative angle of the tongue and the boards may be varied, with consequent variation in the action or draft of the scraper. The draft chain 19 is connected

between the tongue and the front ends of the two end bolts 9, and this chain may be adjusted to accommodate the angle at which the tongue is placed.

A roller 20 is carried between the front and rear boards, being suspended by links 21 connected to the ends of the roller axle and to the rear side of the front board 6. Levers 22 are pivotally mounted or fulcrumed on the top edge of the front board 6 and are connected to the ends of the roller by links 23, one lever being located above each end of the roller. Each lever is engageable with a notched rack 24, projecting upwardly from the rear board. By manipulating the levers the roller can be raised or lowered. The rear board also has a handle 25 for controlling or handling the scraper.

The roller travels along the surface of the ground behind the board and consequently limits the extent or depth of the cut of the boards and also serves to roll or smooth the surface of the ground or road being worked. The roller may be weighted as desired. By manipulating the levers 22 the scraper can be raised or lowered to vary the cut, and when sufficiently raised the scraper boards will be lifted from the ground and thereby rendered inoperative, and the device can then be easily transported. The position of the roller makes the device quite easy to work and control, and it will be found very useful for cutting down ridges and high points and uneven surfaces in road beds and in filling holes and low places, so as to leave a smooth and solid surface. The tongue adjustment permits the grader to be run straight ahead or at any angle from the right to the left so as to carry the dirt in either direction.

I claim:

1. In a grader or scraper comprising front and rear boards connected together, a roller extending across between the boards, and means connected to opposite ends of the roller to raise or lower the boards.
2. A grader or scraper comprising front and rear boards connected together, a roller extending across between the boards, links connected to the front board and to the ends of the roller, levers fulcrumed on the front board and extending rearwardly over each end of the roller and connected thereto, and racks projecting upwardly from the rear board and with which the levers are engageable to hold the roller in adjusted position.

3. A grader or scraper comprising front and rear boards, bolts connecting the same, a curved iron the ends of which extend across the top edge of the boards and are secured thereto, and the middle bowed portion of which projects forwardly beyond the front board, a tongue pivotally connected to the front end of one of said bolts, and a hanger

adjustable along the iron and supporting the tongue.

In testimony whereof I affix my signature, in presence of two witnesses.

HAVILAND TOMPKINS.

Witnesses:

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